

Sheet 1 of 5

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
13320-015001Application No.  
10/071,837**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant  
Shah et al.Filing Date  
February 8, 2002Group Art Unit  
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TECH CENTER 1600/2900**U.S. Patent Documents**

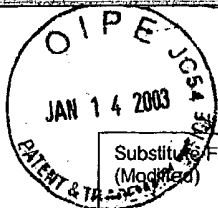
| Examiner Initial | Desig. ID | Patent Number | Issue Date | Patentee          | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|---------------|------------|-------------------|-------|----------|----------------------------|
| N                | AA        | 4,806,631     | 02/21/89   | Carrico, et al.   |       |          |                            |
|                  | AB        | 4,818,681     | 04/04/89   | Dattagupta        |       |          |                            |
|                  | AC        | 4,826,789     | 05/02/89   | Jones, et al.     |       |          |                            |
|                  | AD        | 4,826,790     | 05/02/89   | Jones, et al.     |       |          |                            |
|                  | AE        | 4,937,188     | 01/26/90   | Glese, et al.     |       |          |                            |
|                  | AF        | 4,957,858     | 09/18/90   | Chu, et al.       |       |          |                            |
|                  | AG        | 4,963,436     | 10/16/90   | Jones, et al.     |       |          |                            |
|                  | AH        | 5,008,220     | 04/16/91   | Brown, et al.     |       |          |                            |
|                  | AI        | 5,024,933     | 06/18/91   | Yang, et al.      |       |          |                            |
|                  | AJ        | 5,055,429     | 10/08/91   | James, et al.     |       |          |                            |
|                  | AK        | 5,190,864     | 03/02/93   | Glese, et al.     |       |          |                            |
|                  | AL        | 5,215,882     | 06/01/93   | Bahl, et al.      |       |          |                            |
|                  | AM        | 5,472,842     | 12/05/95   | Stokke, et al.    |       |          |                            |
|                  | AN        | 5,554,744     | 09/10/96   | Bhongle, et al.   |       |          |                            |
|                  | AO        | 5,514,785     | 05/07/96   | Van Ness, et al.  |       |          |                            |
|                  | AP        | 5,601,982     | 02/11/97   | Sargent, et al.   |       |          |                            |
|                  | AQ        | 5,610,287     | 03/11/97   | Nikiforov, et al. |       |          |                            |
|                  | AR        | 5,630,932     | 05/20/97   | Lindsay, et al.   |       |          |                            |
|                  | AS        | 5,637,687     | 06/10/97   | Wiggins           |       |          |                            |
|                  | AT        | 5,641,630     | 06/24/97   | Shitman, et al.   |       |          |                            |
|                  | AU        | 5,665,549     | 09/09/97   | Pinkel, et al.    |       |          |                            |
|                  | AV        | 5,800,992     | 9/1/98     | Fodor et al.      |       |          |                            |
|                  | AW        | 5,830,645     | 11/3/98    | Pinkel, et al.    |       |          |                            |
|                  | AX        | 5,925,525     | 7/20/99    | Fodor et al.      |       |          |                            |
|                  | AY        | 5,965,362     | 10/12/99   | Pinkel, et al.    |       |          |                            |
|                  | AZ        | 5,976,790     | 11/02/99   | Pinkel, et al.    |       |          |                            |
| N                | AAA       | 6,040,138     | 3/21/00    | Lockhart et al.   |       |          |                            |

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|------------------|-----------|---------------|--------------|------------------|-------|----------|----------------------------|
| <i>ML</i>        | ABB       | 6,054,270     | 4/25/00      | Southern         |       |          |                            |
|                  | ACC       | 6,077,673     | 06/20/00     | Chenchik, et al. |       |          |                            |
|                  | ADD       | 6,197,506     | 3/6/01       | Fodor et al.     |       |          |                            |
|                  | ABE       | 6,251,601     | 6/26/01      | Bao et al.       |       |          |                            |
|                  | AFF       | 6,309,822     | 10/30/01     | Fodor et al.     |       |          |                            |
|                  | AGG       | 6,344,316     | 2/5/02       | Lockhart et al.  |       |          |                            |
|                  | AHH       | 6,403,320     | 6/11/02      | Read et al.      |       |          |                            |
|                  | AII       | 5,721,098     | Feb 24, 1998 | Pinkel et al.    |       |          |                            |

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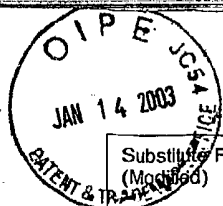
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|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
| K                | AJJ       | 99/09218        | 02/25/99         | WO                       | X     | X        |             |    |
| n                | AKK       | 99/13319        | 03/18/99         | WO                       | X     | X        |             |    |

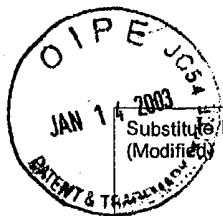
**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
|                  | ALL       | Kern, et al., "Direct Hybridization of Large-Insert Genomic Clones on High-Density Gridded cDNA Filter Arrays", BioTechniques 23:120-124, July 1997  |
|                  | AMM       | Rice, et al., "Comparative Genomic Hybridization in Pediatric Acute Lymphoblastic Leukemia", Pediatric Hematology and Oncology, 17:141-147, 2000   |
|                  | ANN       | Kim, et al., "Putative Chromosomal Deletions on 9P, 9Q and 22Q Occur Preferentially in Malignant Gastrointestinal Stromal Tumors", Int. J. Cancer; 85, 633-638; 2000   |
|                  | AOO       | Houldsworth, et al., "Comparative Genomic Hybridization: An Overview", American Journal of Pathology, Vol. 145, No. 6, December 1994   |
|                  | APP       | Wa'el Fi-Rital, et al., "High-Resolution Deletion Mapping of Chromosome 14 in Stromal Tumors of the Gastrointestinal 14 in Stromal Tumors of the Gastrointestinal Tract Suggests Two Distinct Tumor Suppressor Loci", Genes, Chromosomes & Cancer 27:387-391; 2000 |
|                  | AQQ       | David J. Stewart, "Making and Using DNA Microarrays: A Short Course at Cold Spring Harbor Laboratory", Genome Research, www.genome.org   |
|                  | ARR       | Suzuki, et al., "Construction and evaluation of a porcine bacterial artificial chromosome library", Anim Genet; 31(1): 8-12; FEB 2000 (Abstract)   |
|                  | ASS       | Bertucci, et al., "Sensitivity issues in DNA array-based expression measurements and performance of nylon microarrays for small samples", Hum Mol Genet; 8(9):1715-22; Sep 1999 (Abstract)   |
|                  | ATT       | Zhao, et al., "High-density cDNA filter analysis: a novel approach for large-scale, quantitative analysis of gene expression", Gene 156(2):207-13; Apr 24 1995 (Abstract)  |
|                  | AUU       | Kern, et al., "Direct hybridization of large-insert genomic clones on high-density gridded cDNA filter arrays", Biotechniques; 23(1):120-4; Jul 1997 (Abstract)  |
|                  | AVV       | DeRisi, et al., "Genomics and array technology", Current Opinion Oncology; 11(1):76-9; Jan 1999 (Abstract)   |
|                  | AWW       | DR Walt, "Techview: molecular biology. Bead-based fiber-optic arrays" Science 281:287(5452):451-2; Jan 2000  |
|                  | AXX       | Mark Schena, "Microarray Biochip Technology", Hardcover Eaton Pub Co.; ISBN: 1881299376; January 2000 - (ONLY) website from Amazon.com   |
| n                | AYY       | Yan, et al., "CpG Island Arrays: An Application toward Deciphering Epigenetic Signatures of Breast Cancer", Clinical Cancer Research; Vol. 6, No. 4, 1432-1438; April 2000   |
| n                | AZZ       | Huang, et al., "Methylation profiling of CpG islands in human breast cancer cells", Human Molecular Genetics, Vol. 8, No. 3m 459-470; 1999   |
| n                | AAAA      | J. P. Issa, "CpG-Island Methylation in Aging and Cancer", Curr. Top. Microbiol. Immunol. 249, pp. 101-118; 2000,   |
| n                | ABBB      | Pfeifer, et al., "Mutation Hotspots and DNA Methylation", Curr. Top. Microbiol. Immunol. 249, pp. 1-19; 2000   |

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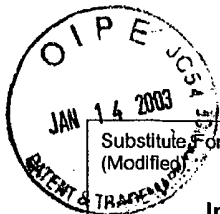
| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
| V                | ACCC      | Cross, et al., "CpG island libraries from human Chromosomes 18 and 22: landmarks for novel genes", Mammalian Genome, Vol. 11, No. 5, May 2000 <i>Pages 373-383</i>   |
|                  | ADDD      | Eads, et al., "MethyLight: a high-throughput assay to measure DNA methylation", Nucleic Acids Research, Vol. 28, No. 8 E32-00; 2000  |
|                  | AEEE      | Pogribny, et al., "A Sensitive New Method for Rapid Detection of Abnormal Methylation Patterns in Global DNA and within CpG Islands", Biochemical and Biophysical Research Communications 262, 624-628; 1999   |
|                  | AFFF      | Edward J. Oakeley, "DNA methylation analysis: a review of current methodologies", Pharmacology & Therapeutics, Vol. 84, No. 3, pp. 389-400; December 1999  |
|                  | AGGG      | Robertson, et al., "DNA methylation: past, present and future directions", Carcinogenesis, Vol. 21, No. 3, pp. 461-467; March 2000   |
|                  | AHHH      | Fan, et al., "Parallel Genotyping of Human SNPs Using Generic High-density Oligonucleotide Tag Arrays", Research, Vol. 10, No. 6, pp. 853-860; June 2000   |
|                  | AIII      | Sapolsky, et al., "High-throughput polymorphism screening and genotyping with high-density oligonucleotide arrays", Genetic Analysis Biomolecular Engineering, Vol. 14, Nos. 5-6, 187-192; Feb 1999  |
|                  | AJJJ      | Emerson, et al., "LXIII Cold Spring Harbor Symposium on Quantitative Biology: Mechanisms of Transcription, Biochimica et Biophysica Acta 1423 R45-R51; 1998  |
|                  | AKKK      | DeRisi, J., et al., "Use of a cDNA microarray to analyze gene expression patterns in human cancer," Nature Genetics, 14:457-460; 1996  |
|                  | ALLL      | Schena, et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes", Proc. Natl. Acad. Sci. Vol. 93, pp. 10614-10619, October 1996  |
|                  | AMMM      | Schena, et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray", Science, Vol. 270, pp. 467-470; 20 October 1995   |
|                  | ANNN      | Shalon, et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-color Fluorescent Probe Hybridization", Genome Research, 6:639-645; 1996  |
|                  | AOOO      | Maskos, et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ", Nucleic Acids Research, Vol. 20, No. 7; pp. 1679-1684; March 1992 |
|                  | APPP      | Hacia, et al., "Detection of heterozygous mutations in BGRCA1 using high density oligonucleotide arrays and two-colour fluorescence analysis", nature genetics, Vol. 14; pp. 441-447; December 1996  |
|                  | AQQQ      | Lockhart, et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays", Nature Biotechnology, Vol. 14, pp. 1675-1680; December 1996   |
|                  | ARRR      | Guo, et al., "Direct fluorescence analysis of genetic polymorphisms by hybridization with oligonucleotide arrays on glass supports", Nucleic Acids Research, Vol. 22, No. 24, pp. 5456-5465; 1994  |
|                  | ASSS      | Ramsay, Graham, "DNA chips: State-of-the-Art", Nature Biotechnology, Vol. 16, pp. 40-44; January 1998  |
|                  | ATTT      | Marshall, et al., "DNA chips: An array of possibilities", Nature Biotechnology, Vo. 16, pp. 27-31; January 1998  |
| M                | AUUU      | Castellino, Alexander M., "When the Chips are Down", Genome Research, Vol. 7, pp. 943-946; 1997  |

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|------------------|-----------|--|
| <i>n</i>         | AVVV      | Schena, Mark, "Genome analysis with gene expression microarrays", BioEssays, Vol. 18 No. 5; pp. 427-431; January 1996                        |
| <i>n</i>         | AWWW      | Beattie, et al., "Hybridization of DNA Targets to Glass-Tethered Oligonucleotide Probes", Molecular Biotechnology, Vol. 4, pp. 213-225; 1995 |
| <i>n</i>         | AXXX      | Anderson, et al., "Quantitative Fiber Hybridisation", <u>Nucleic acid hybridisation, a practical approach</u> , IRL Press, 1985, pp. 98-99   |

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Shishir Shah and Mansoor MohammedFiling Date  
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Unknown**U.S. Patent Documents**

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|------------------|-----------|-----------------|------------------|---------------|-------|----------|----------------------------|
| W                | AA        | 5,807,522       | Sept 15, 1998    | Brown et al.  | X     | X        |                            |
| W                | AB        | 6,159,685       | Dec 12, 2000     | Pinkel et al. | X     | X        |                            |
| W                | AC        | 6,210,878       | April 3, 2001    | Pinkel et al. | X     | X        |                            |
|                  | AD        |                 |                  |               |       |          |                            |
|                  | AE        |                 |                  |               |       |          |                            |
|                  | AF        |                 |                  |               |       |          |                            |
|                  | AG        |                 |                  |               |       |          |                            |

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|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
|                  | AH        |                 |                  |                          |       |          |             |    |
|                  | AI        |                 |                  |                          |       |          |             |    |
|                  | AJ        |                 |                  |                          |       |          |             |    |
|                  | AK        |                 |                  |                          |       |          |             |    |
|                  | AL        |                 |                  |                          |       |          |             |    |

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